



Receipt

JC05 Rec'd PCT/PTO 20 AUG 2001

ALLIA.143C1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Zaghouani)	
Serial No.	:	09/623,728)	I hereby certify that this
Filed	:	January 22, 2001)	correspondence and all marked
For	:	Compounds, Compositions and)	attachments are being deposited with
		Methods for the Endocytic Presentation)	the United States Postal Service as first
		Of Immunosuppressive Factors)	class mail in an envelope addressed to:
Examiner	:	Unknown)	Commissioner for Patents and
Group Art Unit	:	1615)	Trademarks, Washington, D.C. 20231,
)	on
)	<u>August 15, 2001</u>
)	<u>Diane Trus</u>
)	Diane Trus

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WASHINGTON, D.C. 20231

ATTN: OFFICE OF INITIAL PATENT EXAMINATION
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Sir or Madam:

Applicant hereby respectfully requests that the official Filing Receipt for the patent application listed above be corrected as follows:

Please list the number of Drawings as: 23

Please list the Domestic Priority data as claimed by applicant as:

THIS APPLICATION IS A 371 OF PCT/US99/15225 07/06/1999
WHICH CLAIMS BENEFIT OF 09/111,123 07/06/1998
WHICH IS A CIP OF 08/779,767 01/07/1997

Copies of the Filing Receipt with the corrections indicated in red ink, the originally filed Transmittal Letter listing the correct Priority Data, and the cover page of the PCT publication listing the correct Priority Data are enclosed. Please forward the corrected filing receipt to:

Knobbe, Martens, Olson & Bear LLP
20 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660

Please call the undersigned at the number stated below if there are any questions concerning this filing.

Respectfully submitted,

Date: 8/15/2001

John Wurst
John Wurst
Registration No. 40,283
(858) 410-5174



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20521
WWW.USPTO.GOV

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/623,728	01/22/2001	1615	485	ALLIA.143C1	X	20	3000

CONFIRMATION NO. 6688

20995
KNOBBE MARTENS OLSON & BEAR LLP
620 NEWPORT CENTER DRIVE
SIXTEENTH FLOOR
NEWPORT BEACH, CA 92660



FILING RECEIPT



OC000000008145253

Date Mailed: 06/04/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Habib Zaghouani, Knoxville, TN;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/US99/15225 ~~07/06/1998~~
WHICH CLAIMS BENEFIT OF 09/111,123 07/06/1998
WHICH IS A CIP OF 08/779,767 01/07/1997

Foreign Applications

Projected Publication Date: N/A

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Compounds, compositions and methods for the endocytic presentation of immunosuppressive factors

Date: 06/04/2001

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

U.S. Application No.
Unknown

International Application No.
PCT/US99/15225



Attorney Docket No.
ALLIA.143C1

Date: September 5, 2000

Page 1

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 USC 371**

International Application No.: PCT/US99/15225
International Filing Date: July 6, 1999
Priority Date Claimed: July 6, 1998
Title of Invention: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE ENDOCYTIC
PRESENTATION OF IMMUNOSUPPRESSIVE FACTORS
Applicant(s) for DO/EO/US: The University of Tennessee Research Corporation

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Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. (X) This is a **FIRST** submission of items concerning a filing under 35 USC 371.
2. (X) This express request to begin national examination procedures (35 USC 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 USC 371(b) and PCT Articles 22 and 39(1).
3. (X) A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
4. (X) A copy of the International Application as filed (35 USC 371(c)(2))
 - a) () is transmitted herewith (required only if not transmitted by the International Bureau).
 - b) () has been transmitted by the International Bureau.
 - c) (X) is not required, as the application was filed in the United States Receiving Office (RO/US).
5. (X) Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3))
 - a) () are transmitted herewith (required only if not transmitted by the International Bureau).
 - b) () have been transmitted by the International Bureau.
 - c) () have not been made; however, the time limit for making such amendments has NOT expired.
 - d) (X) have not been made and will not be made.

Items 11. to 16. below concern other document(s) or information included:

6. (X) International Application as published.
7. (X) PCT Form PCT/IB/308.
8. () Other Items or information:
9. (X) A return prepaid postcard.

COPY

U.S. Application No.
Unknown

International Application No.
PCT/US99/15225



Attorney Docket No.
ALLIA.143C1

Date: September 5, 2000

Page 2

10. (X) The following fees are submitted:

COPY

FEES

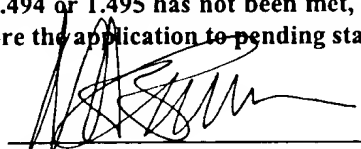
BASIC FEE				\$840
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total Claims	20 - 20 =	0 x	\$18	\$0
Independent Claims	3 - 3 =	0 x	\$78	\$0
Multiple dependent claims(s) (if applicable)			\$260	\$0
TOTAL OF ABOVE CALCULATIONS				\$840
Reduction by 1/2 for filing by small entity (if applicable). Verified Small Entity statement must also be filed. (NOTE 37 CFR 1.9, 1.27, 1.28)				\$420
TOTAL NATIONAL FEE				\$420
TOTAL FEES ENCLOSED				\$420
amount to be refunded:				\$0
amount to be charged:				\$0

11. (X) The fee for later submission of the signed oath or declaration set forth in 37 CFR 1.492(e) will be paid upon submission of the declaration.
12. (X) A check in the amount of \$420 to cover the above fees is enclosed.
13. (X) The Commissioner is hereby authorized to charge only those additional fees which may be required, now or in the future, to avoid abandonment of the application, or credit any overpayment to Deposit Account No. 11-1410. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

KNOBBE, MARTENS, OLSON & BEAR, LLP
620 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660


Signature

Ned A. Israelsen
Printed Name

29,655
Registration Number

NOV 21 2001

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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C07K 19/00, A61K 39 /00 // C07K 14 /47, 16 /00		A2	(11) International Publication Number: WO 00/01732
			(43) International Publication Date: 13 January 2000 (13.01.00)
(21) International Application Number: PCT/US99/15225		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(42) International Filing Date: 6 July 1999 (06.07.99)		<p>Published Without international search report and to be published upon receipt of that report.</p> <p>TECH CENTER 1600 2900 NOV 21 2001 RECEIVED</p>	
(30) Priority Data: 09/111,123 6 July 1998 (06.07.98) US			
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 09/111,123 (CIP) Filed on 6 July 1998 (06.07.98)			
(71) Applicant (for all designated States except US): THE UNIVERSITY OF TENNESSEE RESEARCH CORPORATION [US/US]; 415 Communications Building, Knoxville, TN 37996-0344 (US).			
(72) Inventor; and			
(75) Inventor/Applicant (for US only): ZAGHOUANI, Habib [TN/US]; 1408 Knightsbridge Drive, Knoxville, TN 37922 (US).			
(74) Agent: ALTMAN, Daniel, E.; Knobbe, Martens, Olson and Bear, LLP, 16th Floor, 620 Newport Center Drive, Newport Beach, CA 92660 (US).			

(54) Title: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE ENDOCYTIC PRESENTATION OF IMMUNOSUPPRESSIVE FACTORS

(57) Abstract

A fusion protein for the alleviation of symptoms associated with an autoimmune disorder comprising an immunoglobulin or portion thereof linked to one or more autoantigenic polypeptides or fragments thereof, wherein said immunoglobulin or portion thereof is capable of binding to an Fc receptor and being endocytosed by an antigen-presenting cell, and said one or more autoantigenic polypeptides or fragments thereof provides more than one T cell receptor peptide agonist for presentation on the surface of said antigen-presenting cell upon endocytic processing. Said autoantigenic polypeptides may comprise at least a portion of myelin basic protein or at least a portion of proteolipid protein. Method to alleviate symptoms associated with an autoimmune disorder in a patient in need thereof comprising the steps of providing a composition comprising said fusion protein and administering a therapeutically effective amount of said composition to said patient. Autoimmune disorders may include multiple sclerosis, lupus, rheumatoid arthritis, scleroderma, insulin-dependent diabetes and ulcerative colitis. Method for presenting multiple T cell receptor agonists on the surface of a professional or nonprofessional antigen-presenting cell comprising the steps of providing said fusion protein, contacting said fusion protein with at least one Fc receptor present on the surface of a professional or nonprofessional antigen-presenting cell, whereby the fusion protein is internalized by the antigen-presenting cell, and endocytically processing the internalized fusion protein to provide more than one T cell receptor peptide agonist, wherein the provided T cell receptor agonists are presented on the surface of the antigen-presenting cell.

